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OIQE

RAW SEQUENCE LISTING

DATE: 06/10/2002

PATENT APPLICATION: US/10/090,453A

TIME: 16:36:33

Input Set : A:\404.app

Output Set: N:\CRF3\06102002\J090453A.raw

ENTERED

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4 <110> APPLICANT: Chen, Hongyun
5      Le Bihan, Stephane
6      Kulhanek, Barbara
8 <120> TITLE OF INVENTION: NOVEL ABCA6 TRANSPORTER AND USES THEREOF
11 <130> FILE REFERENCE: 100103.404
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/090,453A
C--> 14 <141> CURRENT FILING DATE: 2002-05-29
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28 gttttgacag tgttctaga gtgttttta ttattttcct gacagttgtg ttccaccatg 180
29 attactttct ccttcagcga ataggctaaa tgaatatgaa acagaaaagc gtgtatcagc 240
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38 ggaatagagg atttgtgget ttacaaacag ctattaatac tgccattata gaaatcacia 780
39 ccaatcacc cgtgatggag gagttgatgt cagttactgc tataactatg aagacattac 840
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102 tgtggcagcg aatccaggca gtcgttaaaa acacagagag aggtgtctc ctgaccaccc 4620
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126 Glu Trp Gly Leu Ser Ile Leu Leu Gly Leu Cys Ile Ala Leu Phe Ser
127 35 40 45
128 Ser Ser Met Arg Asn Val Gln Phe Pro Gly Met Ala Pro Gln Asn Leu
129 50 55 60
130 Gly Arg Val Asp Lys Phe Asn Ser Ser Ser Leu Met Val Val Tyr Thr
131 65 70 75 80
132 Pro Ile Ser Asn Leu Thr Gln Gln Ile Met Asn Lys Thr Ala Leu Ala
133 85 90 95
134 Pro Leu Leu Lys Gly Thr Ser Val Ile Gly Ala Pro Asn Lys Thr His
135 100 105 110
136 Met Asp Glu Ile Leu Leu Glu Asn Leu Pro Tyr Ala Met Gly Ile Ile
137 115 120 125
138 Phe Asn Glu Thr Phe Ser Tyr Lys Leu Ile Phe Phe Gln Gly Tyr Asn
139 130 135 140
140 Ser Pro Leu Trp Lys Glu Asp Phe Ser Ala His Cys Trp Asp Gly Tyr
141 145 150 155 160
142 Gly Glu Phe Ser Cys Thr Leu Thr Lys Tyr Trp Asn Arg Gly Phe Val
143 165 170 175
144 Ala Leu Gln Thr Ala Ile Asn Thr Ala Ile Ile Glu Ile Thr Thr Asn
145 180 185 190
146 His Pro Val Met Glu Glu Leu Met Ser Val Thr Ala Ile Thr Met Lys
147 195 200 205
148 Thr Leu Pro Phe Ile Thr Lys Asn Leu Leu His Asn Glu Met Phe Ile
149 210 215 220
150 Leu Phe Phe Leu Leu His Phe Ser Pro Leu Val Tyr Phe Ile Ser Leu
151 225 230 235 240
152 Asn Val Thr Lys Glu Arg Lys Lys Ser Lys Asn Leu Met Lys Met Met
153 245 250 255
154 Gly Leu Gln Asp Ser Ala Phe Trp Leu Ser Trp Gly Leu Ile Tyr Ala

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159          290          295          300
160 Phe Leu Tyr Gly Leu Ser Leu Val Ala Leu Val Phe Leu Met Ser Val
161 305          310          315          320
162 Leu Leu Lys Lys Ala Val Leu Thr Asn Leu Val Val Phe Leu Leu Thr
163          325          330          335
164 Leu Phe Trp Gly Cys Leu Gly Phe Thr Val Phe Tyr Glu His Leu Pro
165          340          345          350
166 Ser Ser Leu Glu Trp Ile Leu Asn Ile Cys Ser Pro Phe Ala Phe Thr
167          355          360          365
168 Thr Gly Met Ile Gln Ile Ile Lys Leu Asp Tyr Asn Leu Asn Gly Val
169          370          375          380
170 Ile Phe Pro Asp Pro Ser Gly Asp Ser Tyr Thr Met Ile Ala Thr Phe
171 385          390          395          400
172 Ser Met Leu Leu Leu Asp Gly Leu Ile Tyr Leu Leu Leu Ala Leu Tyr
173          405          410          415
174 Phe Asp Lys Ile Leu Pro Tyr Gly Asp Glu Arg His Tyr Ser Pro Leu
175          420          425          430
176 Phe Phe Leu Asn Ser Ser Ser Cys Phe Gln His Gln Arg Thr Asn Ala
177          435          440          445
178 Lys Val Ile Glu Lys Glu Ile Asp Ala Glu His Pro Ser Asp Asp Tyr
179          450          455          460
180 Phe Glu Pro Val Ala Pro Glu Phe Gln Gly Lys Glu Ala Ile Arg Ile
181 465          470          475          480
182 Arg Asn Val Lys Lys Glu Tyr Lys Gly Lys Ser Gly Lys Val Glu Ala
183          485          490          495
184 Leu Lys Gly Leu Leu Phe Asp Ile Tyr Glu Gly Gln Ile Thr Ala Ile
185          500          505          510
186 Leu Gly His Ser Gly Ala Gly Lys Ser Ser Leu Leu Asn Ile Leu Asn
187          515          520          525
188 Gly Leu Ser Val Pro Thr Glu Gly Ser Val Thr Ile Tyr Asn Lys Asn
189          530          535          540
190 Leu Ser Glu Met Gln Asp Leu Glu Glu Ile Arg Lys Ile Thr Gly Val
191 545          550          555          560
192 Cys Pro Gln Phe Asn Val Gln Phe Asp Ile Leu Thr Val Lys Glu Asn
193          565          570          575
194 Leu Ser Leu Phe Ala Lys Ile Lys Gly Ile His Leu Lys Glu Val Glu
195          580          585          590
196 Gln Glu Val Gln Arg Ile Leu Leu Glu Leu Asp Met Gln Asn Ile Gln
197          595          600          605
198 Asp Asn Leu Ala Lys His Leu Ser Glu Gly Gln Lys Arg Lys Leu Thr
199          610          615          620
200 Phe Gly Ile Thr Ile Leu Gly Asp Pro Gln Ile Leu Leu Leu Asp Glu
201 625          630          635          640
202 Pro Thr Thr Gly Leu Asp Pro Phe Ser Arg Asp Gln Val Trp Ser Leu
203          645          650          655

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207           675           680           685
208 Gly Arg Leu Lys Cys Ala Gly Ser Ser Met Phe Leu Lys Arg Arg Trp
209           690           695           700
210 Gly Leu Gly Tyr His Leu Ser Leu His Arg Asn Glu Ile Cys Asn Pro
211 705           710           715           720
212 Glu Gln Ile Thr Ser Phe Ile Thr His His Ile Pro Asp Ala Lys Leu
213           725           730           735
214 Lys Thr Glu Asn Lys Glu Lys Leu Val Tyr Thr Leu Pro Leu Gly Arg
215           740           745           750
216 Thr Asn Thr Phe Pro Asp Leu Phe Ser Asp Leu Asp Lys Cys Ser Asp
217           755           760           765
218 Gln Gly Val Thr Gly Tyr Asp Ile Ser Met Ser Thr Leu Asn Glu Val
219           770           775           780
220 Phe Met Lys Leu Glu Gly Gln Ser Thr Ile Glu Gln Asp Phe Glu Gln
221 785           790           795           800
222 Val Glu Met Ile Arg Asp Ser Glu Ser Leu Asn Glu Met Glu Leu Ala
223           805           810           815
224 His Ser Ser Phe Ser Glu Met Gln Thr Ala Val Ser Asp Met Gly Leu
225           820           825           830
226 Trp Arg Met Gln Val Phe Ala Met Ala Arg Leu Arg Phe Leu Lys Leu
227           835           840           845
228 Lys Arg Gln Thr Lys Val Leu Leu Thr Leu Leu Leu Val Phe Gly Ile
229           850           855           860
230 Ala Ile Phe Pro Leu Ile Val Glu Asn Ile Ile Tyr Ala Met Leu Asn
231 865           870           875           880
232 Glu Lys Ile Asp Trp Glu Phe Lys Asn Glu Leu Tyr Phe Leu Ser Pro
233           885           890           895
234 Gly Gln Leu Pro Gln Glu Pro Arg Thr Ser Leu Leu Ile Ile Asn Asn
235           900           905           910
236 Thr Glu Ser Asn Ile Glu Asp Phe Ile Lys Ser Leu Lys His Gln Asn
237           915           920           925
238 Ile Leu Leu Glu Val Asp Asp Phe Glu Asn Arg Asn Gly Thr Asp Gly
239           930           935           940
240 Leu Ser Tyr Asn Gly Ala Ile Ile Val Ser Gly Lys Gln Lys Asp Tyr
241 945           950           955           960
242 Arg Phe Ser Val Val Cys Asn Thr Lys Arg Leu His Cys Phe Pro Ile
243           965           970           975
244 Leu Met Asn Ile Ile Ser Asn Gly Leu Leu Gln Met Phe Asn His Thr
245           980           985           990
246 Gln His Ile Arg Ile Glu Ser Ser Pro Phe Pro Leu Ser His Ile Gly
247           995           1000          1005
248 Leu Trp Thr Gly Leu Pro Asp Gly Ser Phe Phe Leu Phe Leu Val Leu
249           1010          1015          1020
250 Cys Ser Ile Ser Pro Tyr Ile Thr Met Gly Ser Ile Ser Asp Tyr Lys
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L:13 M:270 C: Current Application Number differs, Wrong Format

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date